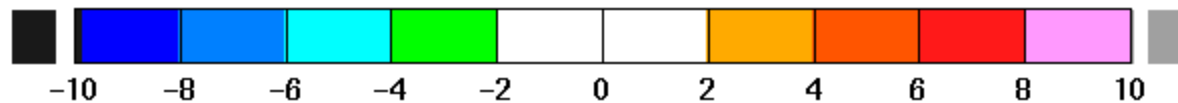
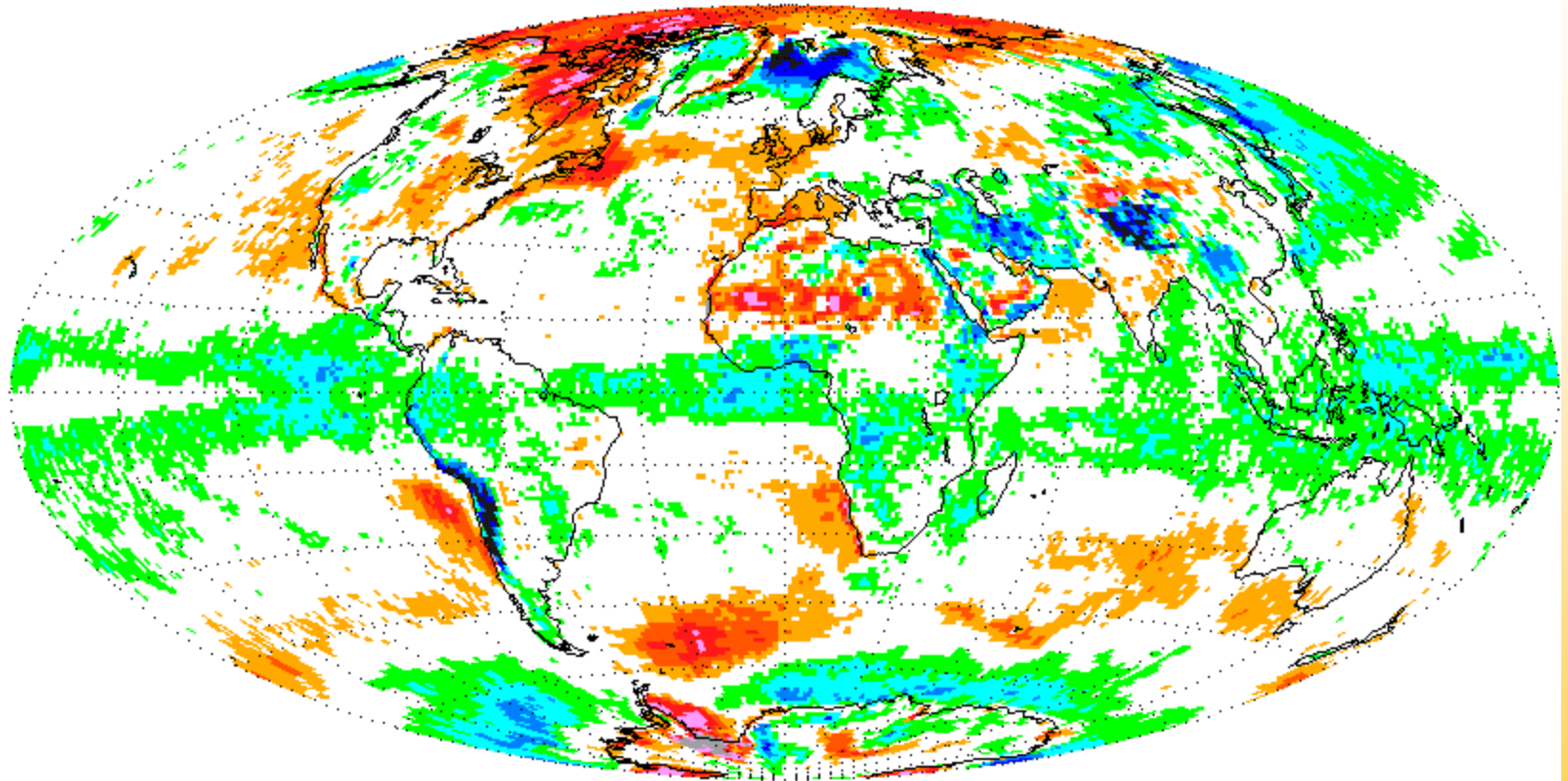


CRS Longwave TOA Bias

- Large day vs night differences
 - Cloud Fraction of High Cloud overestimated at night ?
- Inconsistency in regions where surface temperature inversions occur
 - Cloud retrieval assume ~ 7 K/km lapse rate
 - Near surface over ocean
 - Sarb RT calculations use Geos4 supplied temperature profiles

TOA LW Untuned-Observed

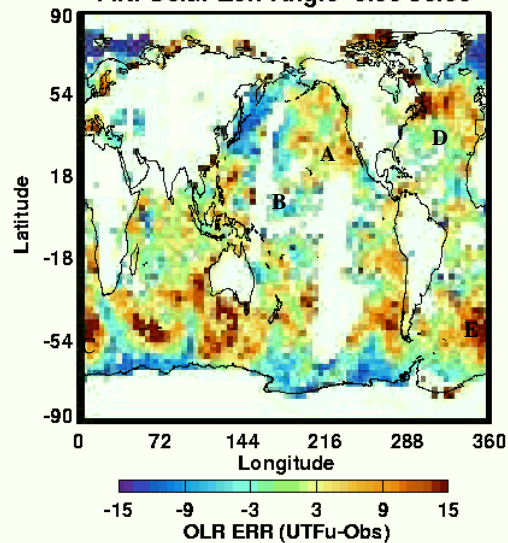
(UT-OBS) LW TOA
CER_FSWB_Terra-FM2-MODIS_Edition2B_017018
200003.all



Mean = -0.56
Stddev = 2.79
Count = 44012

CRS PreED2b ::Overcast Ocean Mar 01 2000

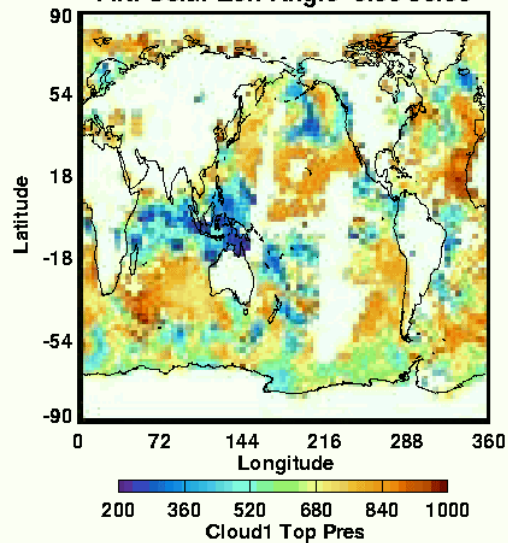
Filt: Solar Zen Angle 0.00 90.00



N= 282843.

Mean (StdDev)
Longitude 186.24(106.62)
Latitude -14.31(43.23)
OLR ERR (UTFu-Obs) 2.93(9.83)

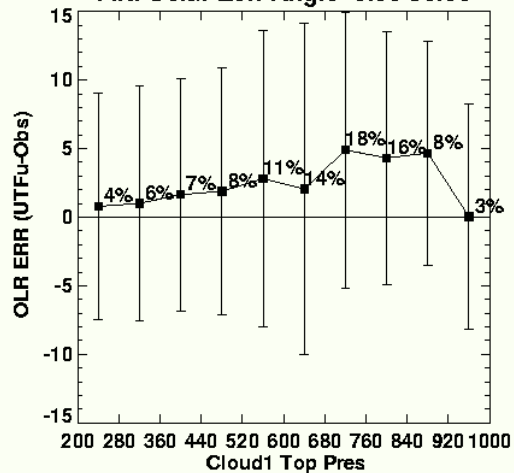
Filt: Solar Zen Angle 0.00 90.00



N= 282843.

Mean (StdDev)
Longitude 186.24(106.62)
Latitude -14.31(43.23)
Cloud1 Top Pres 618.44(199.72)

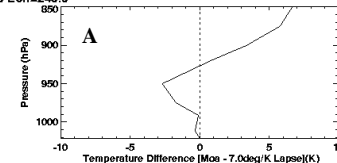
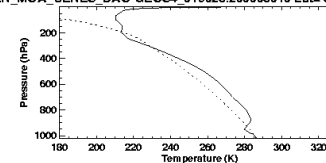
Filt: Solar Zen Angle 0.00 90.00



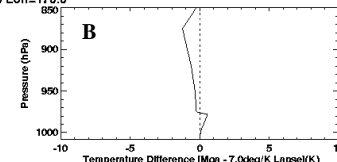
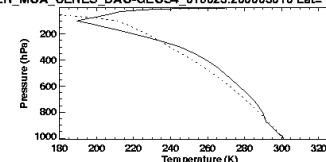
N= 273667.

Mean (StdDev)
Cloud1 Top Pres 633.50(184.88)
OLR ERR (UTFu-Obs) 3.04(9.89)

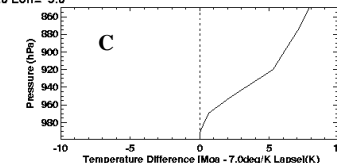
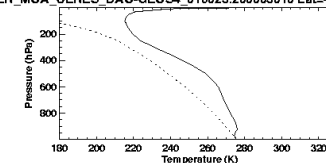
CER_MOA_CERES DAO-GEOS4 016023.200003010 Lat=30.0 Lon=240.0



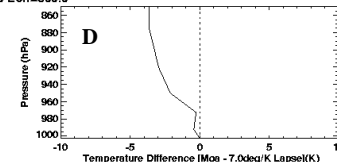
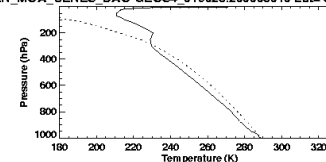
CER_MOA_CERES DAO-GEOS4 016023.200003010 Lat=0.0 Lon=170.0



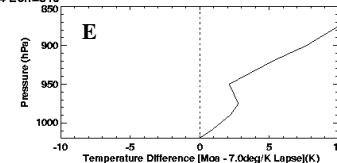
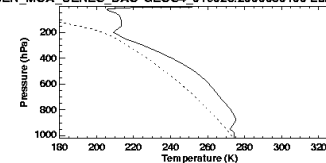
CER_MOA_CERES DAO-GEOS4 016023.200003010 Lat=-55.0 Lon=5.0



CER_MOA_CERES DAO-GEOS4 016023.200003010 Lat=36.0 Lon=300.0

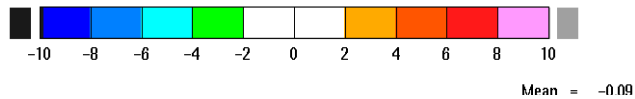
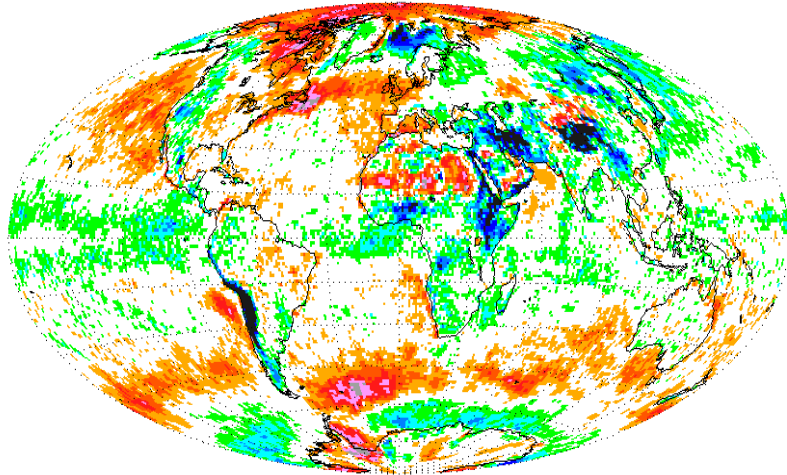


CER_MOA_CERES DAO-GEOS4 016023.200003010 Lat=54.0 Lon=310.0

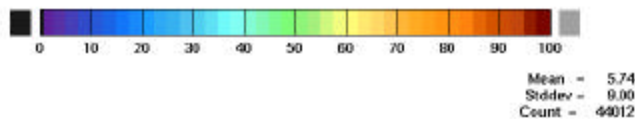
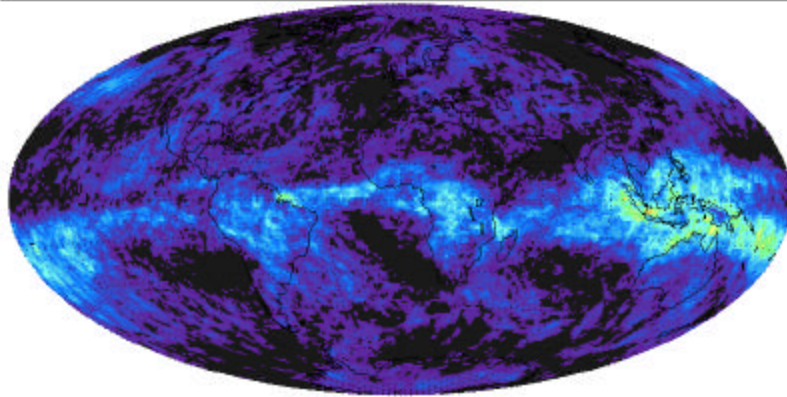


DAY

(UT-OBS) LW TOA
CER_FSWB_Terra-FM2-MODIS_Edition2B_017018
200003.day

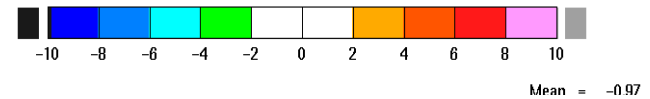
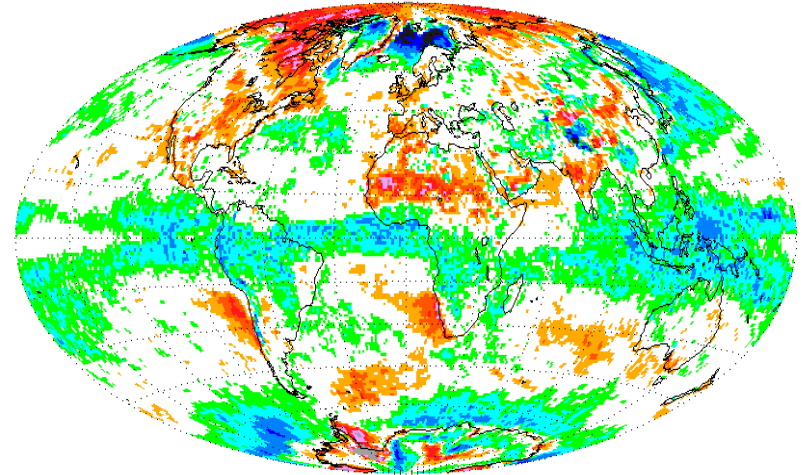


Cloud % High
CER_FSWB_Terra-FM2-MODIS_Edition2B_017018
200003.day



Night

(UT-OBS) LW TOA
CER_FSWB_Terra-FM2-MODIS_Edition2B_017018
200003.nit



Cloud % High
CER_FSWB_Terra-FM2-MODIS_Edition2B_017018
200003.nit

